

FIG. 1

Table of Rules and Actions

Rule	Production	Action
DMread	DUcmd UMcmd MUdata UDdata	DMread_act()
MUdata	MUdxfer MUdxfer	MUdata_act()
UDdata	UDdxfer	UDdata_act(1)
UDdata	UDdata UDdxfer	UDdata_act(2)
DUcmd	(DUcavail=1) AND (UDcget=1)	DUcmd_act()
UMcmd	(UMcavail=1) AND (MUCget=1)	UMcmd_act()
MUdxfer	(MUDavail=1) AND (UMdget=1)	MUdxfer_act()
UDdxfer	(UDdavail=1) AND (DUDget=1)	UDdxfer_act()

FIG. 2

Table of Partial Signal Event List

Time (ns)	Events	Rule
15	DUcavail=0, UDcget=0, UMcavail=0, MUcget=1, MUDavail=0, UMdget=1, UDdavail=0, DUdget=0	
25	DUcavail=1, DUaddr=0x432B, DUop=0, DUlen=1	
30	clock =1	
35	UDcget=1, clock=0	
40	clock=1	DUcmd
54	UMcavail=1, UMaddr=0x432B, UMop=0	
60	clock=1	UMcmd
87	MUDavail=1, MUdata=0x6C45FB19	
90	clock=1	MUdxfer
93	MUdata=0x28EB38DC	
100	clock=1	MUdxfer, MUdata
105	UDdavail=1, UDdata=0x6C45	
110	clock=1	
117	DUdget=1	
120	clock=1	UDdxfer, UDdata(1)
125	UDdata=0xFB19	
130	clock=1	UDxfer, UDdata(2), DMRead

FIG. 3

STACK

Time 40	Time 60	Time 90	Time 100	Time 100
DUcmd	UMcmd	MUdxfer	MUdxfer	MUdata
	DUcmd	UMcmd	MUdxfer	UMcmd
		DUcmd	UMcmd	DUcmd
			DUcmd	

Time 120	Time 120	Time 130	Time 130	Time 140
UDdxfer	UDdata	UDdxfer	UDdata	DMRead
MUdata	MUdata	UDdata	MUdata	
UMcmd	UMcmd	MUdata	UMcmd	
DUcmd	DUcmd	UMcmd	DUcmd	
		DUcmd		

FIG. 4

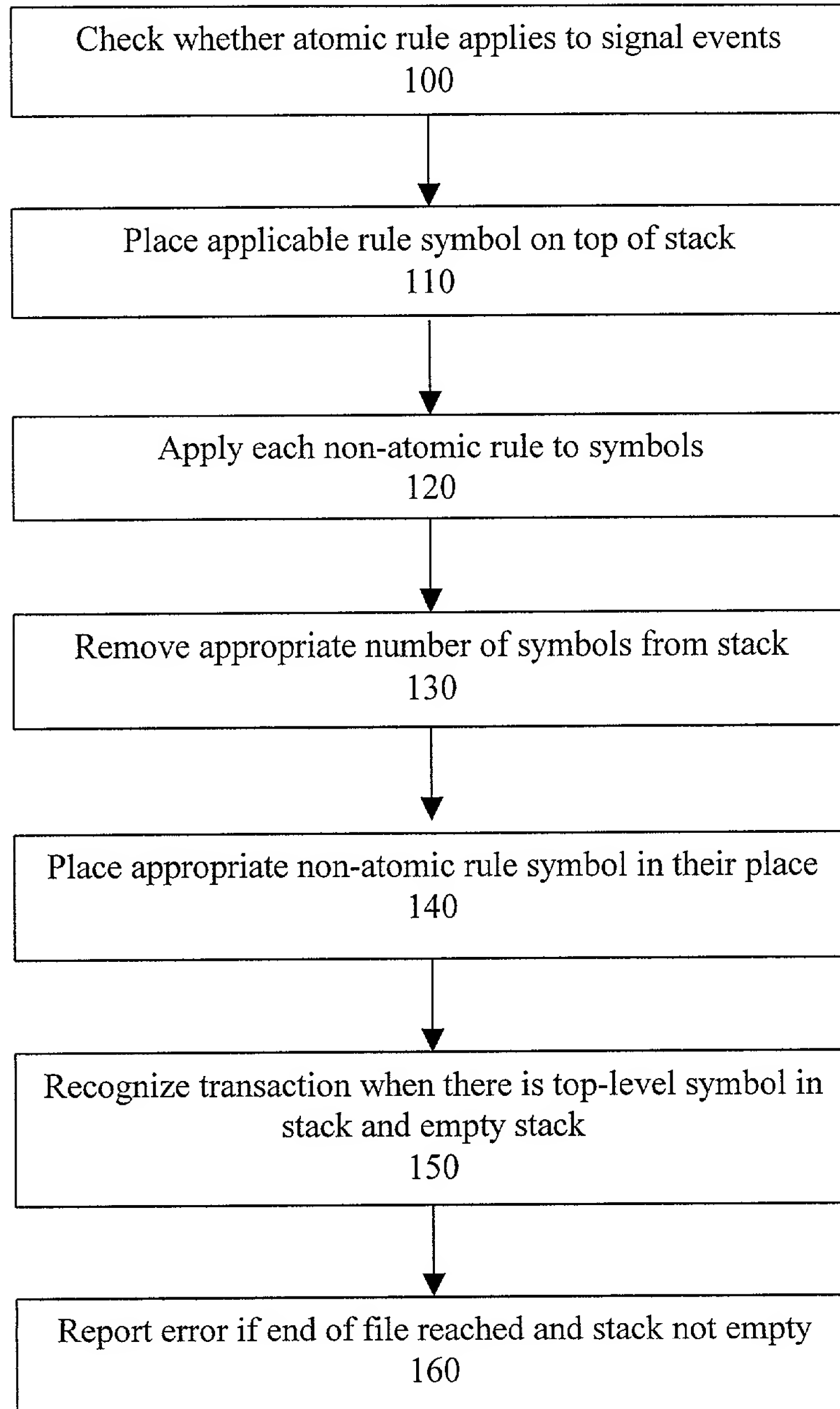


FIG. 5

DMRead Process

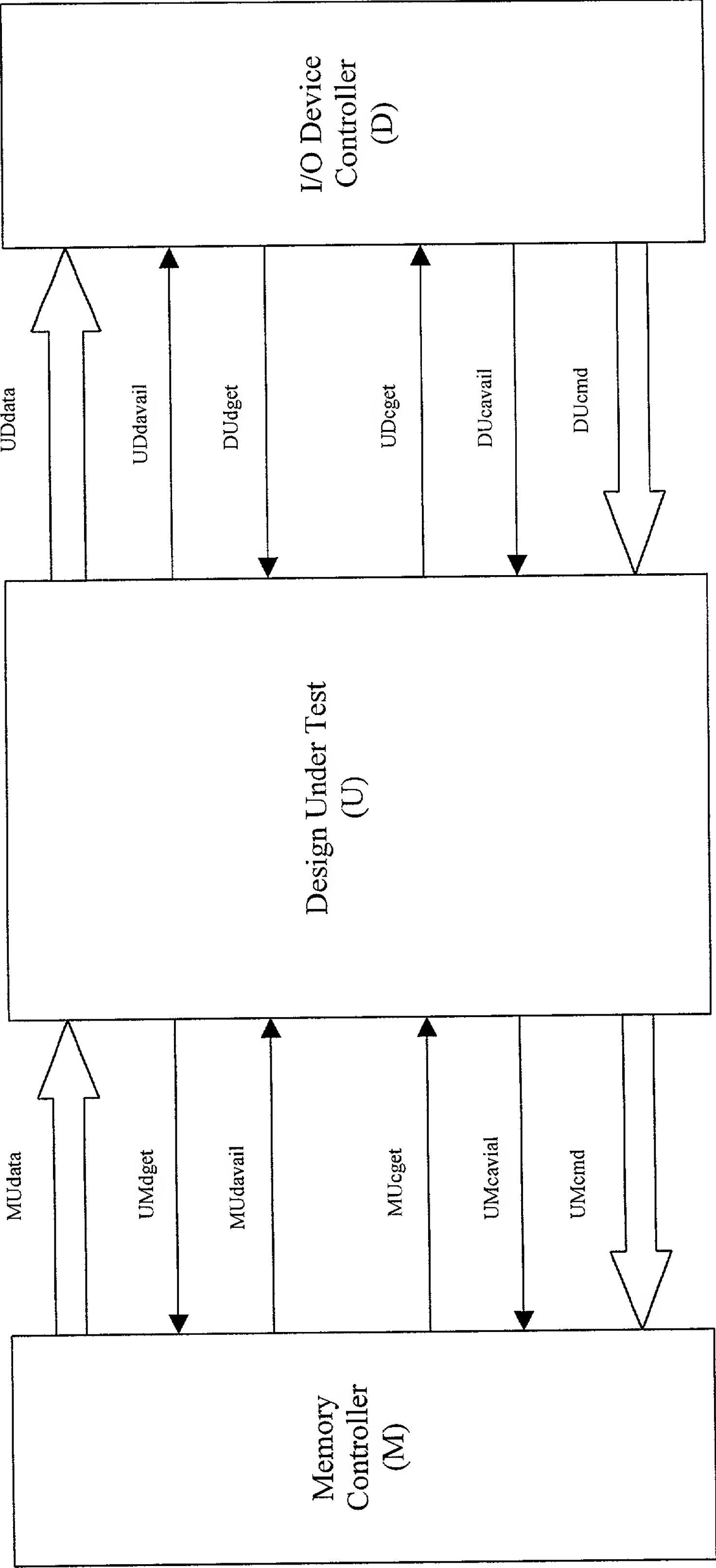


FIG. 6